

I. Project Title and Project Purpose Statement

Exposure to toxins, poor indoor air quality, energy inefficient housing, and lack of environmental amenities are critical problems facing Lake County's low-income and Latino communities. ***The Cloud City Environmental Equity Project (CCEEP)*** focuses on addressing disparities in environmental health risks among the diverse residents of our community. Our collaborative partnership will work to improve understanding of current environmental health risks facing our community, develop capacity and leadership in the affected community, and work to improve the quality of life in immigrant and low-income neighborhoods in Lake County by shaping planning and policy, increasing resources and investment to these areas.

The project will take place in Leadville, Colorado (80461) and include surrounding areas of Lake County. The project addresses concerns related to the Clean Air Act, Section 103(b)(3) by developing solutions to excessive energy consumption and air pollution. Reductions in energy use will have a positive impact on the health and welfare of the community. The project also relates to the Toxic Substances Control Act, Section 10(a) by providing public education and remedies that reduce exposure to toxic substances in the homes and neighborhoods of our affected communities. Finally, the project relates to Safe Drinking Water Act, Section 104 (b) (c) (3) by addressing concerns about the safety of drinking water in affected communities. Taken together, the outcome of this project is a more sustainable, healthy, and viable environment for an environmental justice population under pressure in Lake County.

The Cloud City Environmental Equity Project (CCEEP) is collaboration between the following entities:

1. ***The Cloud City Conservation Center*** is the project lead for this application. We are a non-profit 501(c)(3) environmental organization based in Leadville and Lake County, Colorado. Our mission is to strengthen our community's responsibility to the natural world and one another through resourcefulness, efficiency and imagination. Cloud City Conservation Center has piloted innovative energy efficiency projects with an environmental justice framework, in low-income Lake County communities.
2. ***Lake County Build-A-Generation*** is a community coalition working at the intersection of community organizing, environmental change, and health prevention. Its mission is "organizing Lake County to create a healthier community for youth and families." Current initiatives include coordinating youth, families and agencies through the Youth Master Plan; engaging community members on environmental changes to promote healthy, active lifestyles through LiveWell Leadville; reducing tobacco, alcohol and marijuana use through Drug-Free Communities; and addressing community health disparities through the Lake County Public Health Assessment and Improvement Plan. In its work, the organization has successfully utilized community organizing and participatory action research as its key strategies to catalyze community change.
3. ***The Lake County Public Health Agency's mission is to prevent disease*** and promote healthy behaviors within a healthy environment. The Agency provides a range of services including Family Planning, Immunizations, Blood Lead

Testing, Nutritional Education, Emergency Preparedness, and Medicaid Applications. They have many years of experience in developing effective environmental health programs targeting the diverse residents of our community.

4. ***The Full Circle Women's Empowerment Group*** works with acculturating mothers, who meet every Thursday to learn and share experiences they face as they try to improve their family lives. Mothers learn new skills, such as embroidery and sewing, which increases their self-esteem in many areas of life. Within the Empowerment Group, women offer each other support and community speakers share expertise on domestic violence, health, education, and community integration issues. The group currently hosts energy efficiency workshops made possible by the Environmental Justice Small Grant Program.

II. Environmental and/or Public Health Information About the Affected Community

a) Local Environmental and/ or Public Health Issue(s) Addressed by the Project.

Lake County is a remote and rural region in the heart of the Colorado Rockies. A combination of factors creates difficult living conditions for the residents of our community. Leadville is a bedroom community to well-known ski resorts, providing housing for low-skill labor and construction workers. Almost two-thirds of residents commute long distances over icy roads, leaving little time for a focus on health. Numerous car accidents on these roads contribute to a higher than average accident mortality rate in our community. Mobile home parks constitute the housing stock for most low-income and Latino residents. These neighborhoods are disconnected from the core of downtown Leadville making community integration difficult. An inefficient and aging housing stock exacerbates exposure to toxins and causes high rates of energy poverty with residents spending 10-30% of their annual income on heating. Concerns about safe drinking water cause anxiety in these parks, and residents spend money on expensive bottled water rather than trust their tap water. As a result of these inequities in the environment, Latino and low-income residents are more likely to experience higher rates of heart disease and other stress-related illnesses, and to have higher rates of exposure to toxicity in their homes and neighborhoods. This project seeks to evaluate risks and prioritize remedies for those impacts that most concern the affected population. As a result of this project, low-income and Latino residents of Lake County will be empowered to voice their concerns, impact planning and policy, and shape strategies to remedy environmental harms. We also wish to see an increase in environmental amenities such as parks, bike paths, and improved road infrastructure to ameliorate traffic related accidents and anxiety (all three major mobile home parks are located next to major highways with limited signage, crossing, and other pedestrian safeguards).

b) Characteristics of the Affected Population and c) Disproportionate Impacts of Environmental Harms and Risks:

Changing demographics in Lake County have increased the need for environmental public health interventions. Lake County's demographic statistics back

up this claim. The most recent Census gives evidence of the changing demographics and struggles of our community.

Lake County's economic statistics reflect these recent struggles. For the period between 2006 and 2010, median household income in Lake County was \$41,103—72.8% of the median household income for the state of Colorado (\$56,456) (U.S. Census).

Ethnically, Lake County is a changing community. Between 1990 and 2010, the white, non-Hispanic population increased by 5% while the Hispanic population increased by 99% (U.S. Census). In 2010, Lake County's Hispanic population comprised 39% of the entire population, almost twice the state rate of 20.9% (U.S. Census).

Of Lake County residents age five or older, an estimated 29.9% speak a language other than English at home, compared to 16.8% in Colorado (U.S. Census, 2006-10).

According to CDPHE data, 70.6% of adults in Lake County are overweight or obese, substantially above the state average (56.2%)— indicating that Lake County is in immediate need of interventions to prevent the worsening of its obesity rate.

State County Health Rankings show that 18% of Lake County adults report absolutely no leisure time physical activity.

Additionally, the 2012 Lake County Public health Assessment and Improvement plan describe environmental factors as important to the health of the community. Specifically, Latino residents living in outlying areas of Leadville are identified as most susceptible to numerous environmental hazards and burdens due to linguistic and educational barriers. Some of the environmental hazards facing the community include:

Radon: Of the 128 Leadville Homes recently tested for radon, 47.9% had levels over the EPA recommendation. Education efforts for radon and other environmental hazards were rated inadequate in the community. The lack of resources to address radon demonstrates the high need for increased focus on this issue.

Clean Water: In a 2009 Colorado survey, only 21% of well owners had had their well tested within the last year. Of those, 8% tested positive for nitrates, 5% for bacteria, 2% for volatile organic compounds, and 1% for pesticides. A lack of local water-quality testing options for residential well users is a critical gap in our community's capacity to address safe drinking water issues.

Poor Indoor Air Quality: Recent home energy audits in the affected community have identified high levels of carbon monoxide in Latino homes. 25-30 ppm are not uncommon. Mold is also an issue and is related to poorly constructed homes.

Energy Burdens: Energy inefficiency is a huge burden to residents and the environment. Recent surveys show a high rate of energy poverty, with residents reporting utility bills in excess of 30% of their annual income.

Furthermore, the 2013 Youth Master Plan (An initiative of Build-A-Generation) identified community development as one of five focus areas impacting youth and families in Lake County. This plan, created with a great deal of input from local residents, identified a lack of environmental sustainability as an impediment to the well being of youth and families. From the need for more parks and green space to healthy

transportation options and improved roadways for pedestrian safety, increasing access to environmental is a clear priority for our community. Although walking routes to schools and a new recreation center are being developed, the lack of safe pedestrian and recreational infrastructure to and in outlying communities is a critical component that needs work. Specific neighborhoods, such as the Mountain View mobile home community will require further assessment and prioritization; this project aims to fill the need for this work. Residents of Latino origin are especially vulnerable to inequity as a result of limited engagement, language barriers, fear and mistrust, and structural patterns of political inequality. As a result, the environments in which these residents live, work, and play are not equal and in fact cause significant harm and hardship for youth, families, and individuals.

III. Cloud City Conservation Center's Historical Connection to the Affected Community.

A. The History of Cloud City Conservation Center's Involvement:

In 2011, a diverse group of local stakeholders created the Lake County Energy and Sustainability Plan. Efforts by this group subsequently led to a new county recycling center, additional recycling drop-off centers, the community's first public renewable energy project, and first large-scale zero-waste events. Importantly, environmental justice was identified as a community priority. Cameron Millard, the project manager of this grant, advised the group through a Master's Thesis on energy poverty. The thesis, entitled *Towards a Just and Sustainable Energy Environment in Lake County*, examined the disparity in energy consumption among the residents of Lake County. The results of his study have informed past and present initiatives, including this proposal. The group that developed and implemented these projects became the Conservation Center's founding board and staff. The organization began operations on January 1st, 2013 with seed funding from Lake County Government. One of the top strategic priorities of C4, at the direction of Lake County officials, residents, business leaders, and other stakeholders, was to address inequity in the housing stock that disproportionately impacts low-income and Latino residents.

B. Cloud City Conservation Center's Environmental Work With the Affected Community:

In 2013, funded by the EPA, C4 began its Energy Justice Initiative, which addresses energy poverty and climate change in low-income and Latino neighborhoods. Key to this project's success include integration of members of the affected population from start to finish, open lines of communication and two way flow of information. Services offered have been in high demand. This project is on track to meet its goals of reducing energy consumption and engaging residents in sustainable behavior change around energy efficiency. Our emphasis on community-based social marketing, education, and partnership has produced tangible results for our participants (16 households have currently undergone comprehensive home energy audits with improvements and personalized energy education). Staff visit residents' homes on two or more occasions and spend significant time developing relationships with program participants. As a result, the organization has detailed knowledge and understanding of

the kind of issues that face the residents. Residents have provided invaluable feedback and direction to the organization, and we wish to continue to utilize these relationships to improve the environmental quality of the homes and neighborhoods in which our program participants reside.

Additionally, C4 has worked with partners to share knowledge and conduct stakeholder sessions with affected communities. Partners include LiveWell Colorado, Build-A-Generation, and other governmental and non-profit partners. As a result of our engagement, a bigger picture of environmental disparity has emerged. In stakeholder sessions, residents have expressed their concern about a range of issues, from a lack of safe public walkways to the toxicity concerns to limited healthy food options. A pattern of environmental inequity emerged in these discussions and has prompted this coalition to focus on addressing specific issues.

C. How Residents Inform Decision Making

As a result of our work in the community, community members better understand environmental issues, and our organization better understands the benefits and barriers to sustainable change. Residents continue to share a wealth of information about their lives and the quality of their environments. We have conducted surveys and interviews to understand the priorities of these residents and as a direct result are working to develop and implement solutions to real issues and problems. Specific characteristics of distinct neighborhoods inform our prioritization of organizational resources and the strategies we employ to solve real problems in our community.

D. How We Have Increased Community Capacity to Address Environmental Problems:

As a result of our Energy Justice Initiative, many residents of Lake County have received detailed and personalized education about saving energy, improving indoor air quality, and taking steps to improve their environment. Through direct interventions like programmable thermostats and carbon monoxide alarms, residents are able to better manage their energy use and protect their families from harm. Additionally, residents are encouraged to share what they learn with others, increasing the social diffusion of our efforts. Finally, we have developed a core group of participants who feel more comfortable engaging in decision making processes, providing feedback and information to NGO's, and who are empowered to make changes in their homes, neighborhoods, and communities.

E. How We Have Maintained Ongoing Relationships

Our current project demonstrates a high level of success in outreach, and relationship building. Through informative workshops with the Women's Empowerment Group, at bilingual language classes, and at Churches, we have built a network of informed and active citizens who are engaged in transforming their own energy use at home and who often share information with neighbors, family and friends. The process of conducting home energy audits enables us to develop new relationships and maintain existing ones. This project builds trust between participants and our organization, and as a result residents feel comfortable reaching out for a variety of reasons. We often respond to non-energy efficiency related issues, such as

connecting residents with community resources offered by other organizations. We have hired a bilingual intern of Mexican origin to facilitate communication and participate in home visits. Additionally, we work to incorporate diverse perspectives into planning process in an iterative cycle that identifies issues, produces solutions, and expands in scope. This proposal is directly related to the environmental justice concerns of our community. Finally, we continue to meet with the Women's Empowerment Group to educate local female leaders about energy efficiency and to receive information and feedback related to the community.

IV. CCEEP Project Description: "What type of community improvement will result from this project?"

IV i-A. Local Environmental and Public Health Results the Project Seeks to Achieve:

As a result of this project, residents, officials, and stakeholders in Lake County will better understand environmental health risks to low-income and Latino neighborhoods. This understanding will lead to remedies that reduce environmental harms while increasing environmental benefits for the affected population.

Project objectives are:

- 1) To identify, quantify, and map environmental hazards such as radon, water contamination, and infrastructure problems that face to low-income and Latino residents.
- 2) To engage, empower, and activate citizen leaders who will participate in the development of solutions to shared problems.
- 3) To increase the health and quality of life for low-income and Latino residents by implementing collaboratively developed solutions.
- 4) To increase the sustainability of our community by improving the environment in which we all live, work, and play.

The project results can be summarized as a widening circle of environmental sustainability and human health initiatives that begin with individual homes, grow to encompass neighborhoods, and finally include the entire community of Leadville and Lake County.

The timing of the project will coincide with Comprehensive Planning efforts being undertaken by the County and City and Implementation of the Youth Master Plan. The Environmental Justice work undertaken in this project has significant application to both of these planning processes. The timing could not be better as C4 works with project partners to complete and implement these two planning processes. The project will provide guidance and advocate for environmental equity within these planning processes and the project will work to address critical gaps already identified in the Lake County Youth Master Plan, the LiveWell Leadville Community Strategic Plan, and the Lake County Community Health Assessment and Improvement Plan.

IV i-B. How the project will achieve these results and how the community benefit from these results. (Describe and/or identify activities designed to engage, educate, empower and enable community to understand the environmental

and/or public health issues).

This project presents a unique opportunity to enhance and expand upon the goals of the LiveWell Leadville project (a coalition of Build-A-Generation and LiveWell Colorado while focusing on related environmental issues that function as barriers to multi-partner and community goals. The project will utilize the expertise, data collection, and community engagement ability of Build-A-Generation to collect qualitative and quantitative data about environmental disparities impacting residents in Lake County.

1. Research and deepening understanding. Initial activities will work to document the immediate environmental hazards facing the affected population.
2. Educate and Inform. Hazards will be communicated to the community through community forums and outreach.
3. Leadership development. Paid leadership training will develop active citizen-leaders and environmental health advocates. Stakeholder groups consisting of project partners, affected residents, city and county officials, and businesses such as the owner of one of the major mobile home parks will be convened to develop remedies and resolve conflicts. As a result of increased awareness, data, leadership, and action, neighborhoods will build capacity to address the impacts of environmental factors that impinge on a high quality of life.
4. Stakeholder groups will prioritize environmental hazards and develop strategies for solving them through collaboration with project partners.
5. Stakeholder groups will begin to implement top strategies using existing networks of services, and developing new services as necessary.

IV i-C. How the collaborative problem solving model elements may be incorporated into the project.

- 1) Activities will build upon existing issue identification, community vision, and strategic goal setting initiated by the LiveWell Leadville coalition by contributing resources and staff time to addressing environmental disparities that impact health and equity in Lake County.
- 2) Local community leadership development will help build a community of local experts who understand and are empowered to act on environmental issues. Culturally-sensitive training will enable all partners to increase multi-cultural capacity to address issues.
- 3) As conflicts are identified (for example, between mobile park owners and residents), dispute resolution facilitators will help assist with the development of cooperative solutions.
- 4) Solutions to environmental problems will certainly require outside resources, and this project will work with our multi-stakeholder partnerships to leverage resources for solutions to collective environmental harms that threaten communities as well as developing new environmental amenities (such as a bike path to mobile home parks and appropriate street improvements to encourage healthy habits and reduce hazards from traffic).
- 5) 5) As collaborative dialogue ensues, the project will engage the relevant stakeholders to influence development and investment in ways that benefit

environmental justice populations.

- 6) Sound management and implementation by Cloud City Conservation Center will provide accountability to the use of collective resources and drive meaningful and equitable investment into the future.
- 7) The entire process will be carefully evaluated by BAG to encourage replication of practices by community planners, officials, organizations, and residents, as well as to determine the project's impact on the health and well being of the affected population.

IV i-D. How the Organization's Efforts Will Increase the Community's Capacity to Address Local Environmental and/or Public Health Issues.

Our efforts will strive to ensure meaningful participation and action by residents, organizations, and officials in shaping the kind of environment that promotes health, sustainability, and well-being. Our project seeks to develop local residents into experts and leaders who can counter existing paradigms that their neighborhoods are not invested in a sustainable future. We wish to create an active citizenry that knows how to advocate for healthy environments and who have the ability to drive investment towards sustainability in their own neighborhoods. We will act diligently to activate the voice of just sustainability; a sustainable vision that privileges the voices of the least empowered and most deserving of environmental protection. These goals will be achieved by leveraging existing networks such as the Women's Empowerment Group to reach members of the affected community. Through paid leadership development, interested residents will learn about the environmental challenges facing their community and gain the skills to advocate on behalf of their neighborhoods.

IV ii. The role of our partners in addressing the local environmental and/or public health issue(s); The nature of the organization(s), and what resources they bring to the partnership; - How the partners has a vested interest in working with this partnership, commitments made, and specific activities it will be responsible for; and - How the applicant plans to maintain and sustain the partnerships.

The Cloud City Conservation Center will be the project leader and manager. We will convene monthly stakeholder sessions to develop the project, implement activities, manage funds, direct resources, and shape outcomes. Our environmental expertise and advocacy will bring about high quality outcomes. We have experience managing federal funds, developing and implementing grassroots projects, and creating innovative and practical solutions to community environmental problems. We work with a mandate from local officials, residents, business, and other stakeholders to address environmental sustainability in our community. We are committed to maintaining and sustaining relationships with multiple partnerships by participating in community building, planning process, and engagement with residents from all walks of life.

Lake County Build A Generation will play a support and technical role, including providing facilitation, data collection, community organizing, expertise around health equity issues, and evaluation. Build A Generation will draw upon its experience with numerous multi-stakeholder projects designed to impact population-level health and address health equity issues in Lake County. It brings to the table

expertise in data collection, expertise in community organizing, experience convening agencies together on multi-stakeholder projects, expertise in the fields of health prevention and health equity, and expertise in local evaluation. LCBAG has consistently shown the ability to execute collaborative, community-wide projects. Recently, for example, LCBAG has led both Youth Master Plan (YMP) and Public Health Improvement Plan (PHIP) processes. Both of these efforts have involved bringing together multiple stakeholders across sectors to build understanding, collaborate, and set community-wide goals. The YMP process also involved significant community outreach: steering committee members held 25 focus groups, worked to ensure that 902 residents took a comprehensive survey, and brought over 250 people together at a bilingual World Café event titled “Vision Leadville,” to discuss their vision of a healthier community. Moreover, these planning projects have resulted in real and measurable change in our community—in projects ranging from the construction of a \$26.5 million high school to the creation of The Leadville Community Hub, a virtual community center in which agencies can post healthy events, activities, and information for the community. Build A Generation has committed staff time and resources to this project. It has a vested interest in solving environmental justice issues because they are central to its mission of improving population-level health by improving the environment in which people live, work, and play—and this shared interest should ensure the sustainability of this partnership.

Lake County Public Health Agency will provide analysis, technical advice, existing environmental data, and guidance in addressing the health concerns raised by the project. The Agency is responsible for environmental health in the community and is committed to assisting with the development of solutions to community health problems. The Agency has committed staff time, data resources, and the full assistance and cooperation of its staff and office towards this project.

Full Circle Women’s Empowerment Group has many years of engagement with the community and with the Latino population especially. Their role in the project is critical to building the capacity and involvement of the impacted community. The project director of the group lives in the impacted community and has demonstrated a strong desire to engage in the issues. The Women’s Empowerment Group itself is prepared to develop itself as a leadership and advocacy council to improve their homes, neighborhoods, and community. Full Circle, a non-profit community-based organization, brings with it an impressive legacy of culturally sensitive and empowering engagement with our Latino and low-income community. Their youth program is in its third decade and continues to increase youth participation and meaningful involvement in community affairs.

V. Organizational Capacity and Programmatic Capability

A. The organizational and administrative systems (e.g., accounting programs) the organization has in place that will be used to appropriately manage, expend, and account for Federal funds:

The Cloud City Conservation Center has accounting, administration and reporting systems in place to ensure accountability and transparency.

C4's Executive Director approves program budgets and ensures internal monthly tracking and reporting.

The Board of Directors is responsible for the organization's fiscal oversight. Organizational budget and cash-flow are presented to the board by the finance officer and approved quarterly. Program reports are presented quarterly to the board. Board committees share oversight and collaborate programs processes. The Energy Committee provides input in the Environmental Justice Initiative on a regular basis.

Accounting and tracking systems ensure accurate record keeping and reporting. *Quick Books* is used for cost expenditure and account tracking.

An organizational calendar indicates all grant and internal reporting timelines. Grant awards are entered into a database that includes timeline and procedures for reporting deliverables.

B. How the applicant has successfully managed these projects in the past;

The Cloud City Conservation Center is currently managing several federal grants, including the Environmental Justice Small Grant and a USDA Solid Waste Management Grant through the rural development office.

C. How the applicant plans to effectively manage and successfully complete this proposed project:

The Cloud City Conservation Center has established an organizational management system to track, manage, and complete it's projects and initiatives. The Board of Directors provide oversight, and the Executive Director manages staff in order to ensure accountability, timeliness, and excellence in program delivery.

D. Organizational experience (or the ability to obtain such experience) to successfully achieve the goals of the proposed project.

Lynne Westerfield is the Executive Director of the Cloud City Conservation Center and will be responsible for supervision and support of grant deliverables. Lynne has successfully managed over two million dollars in government and foundation grant contracts for Cloud City Conservation Center, the High Country Conservation Center and the University of Idaho McCall Field Campus. Prior to her work at C4, Lynne was responsible for creating and implementing county-wide Energy and Sustainability Plans in Lake County and Summit County. She is adept at building shared vision among diverse populations. In 2013, she directed C4's growth from a start-up non-profit to a successful organization with excellent program outcomes, community support and viable and diverse funding streams. Lynne holds a Masters degree from The University of Idaho College of Natural Resources and a BA from Colorado College.

Cameron Millard, Cloud City Conservation Center Energy Director, will be primarily responsible for grant management and reporting. Cameron is the director of C4's Energy Programs including the current Environmental Justice program in underserved Latino communities. Cameron has spent the past several years building relationships with disadvantaged communities and is excited to work further with these communities. Cameron holds a Master's Degree from Naropa University in Environmental Leadership and Bachelor's degree from Amherst College.

Cloud City Conservation Center has an excellent track record of success in project and grant management. By maintaining open lines of communication with project participants and through internal and external program evaluation and development, C4 continues to improve the management of its programs. C4 has established diverse funding streams that ensure program sustainability, including an annual contract with Lake County Government, foundation and government grants, fee-for-service contracts and private donations.

E. If the applicant has been a recipient of an EPA and/or other Federal grant/cooperative agreement in the last five years, please indicate past performance in meeting reporting requirements (e.g., progress reports, financial status). Please also include the name of the Project Officer overseeing the grant/cooperative agreement and the assistance agreement number associated with the project(s);

The Environmental Justice Small Grant was awarded to the Cloud City Conservation Center in September of 2013. We are approaching our six-month progress report and expect to successfully submit our report in a timely manner. The grant opportunity number is EPA-OECA-OEJ-13-01. The CFDA number is 66.604. The Project Officer's name is April Nowack.

The United States Department of Agriculture (USDA) issued a Solid Waste Management grant to C4, with a start date of October 2013, for \$30,000. Monthly requests for reimbursement as well as quarterly progress reports have been completed on time. The project is on-track to meet its goals which include holding lake County's first Household Hazardous Waste Round Up. The Project Officer is: Dave Carter, Rural Development, Delta Field Office (970) 874 5735, Project Approval Number: 0348-0004

VI. Qualifications of the Project Manager (PM)

A. The qualifications of the PM as they relate to the project; how the PM has ties to the community and/or organization; and past activities that the PM has worked on with the community:

Cameron Millard will be the Project Manager. A graduate of a Master's of Arts program in Environmental Leadership from Naropa University in Boulder, Mr. Millard is the current project manager of the Energy Justice Initiative, an EPA Environmental Justice Small Grants funded project working to improve energy efficiency in the affected communities. Mr. Millard is a certified building analyst with thousands of hours of experience in evaluating homes for energy efficiency and indoor air quality issues. Mr. Millard has a BA in Spanish, a qualification that has already proven its value in the current work with the Latino population around energy efficiency.

Mr. Millard is currently the Energy Programs Director at Cloud City Conservation Center and a 7-year resident of Lake County Colorado. Additionally, he is an instructor of Sustainability Studies at Colorado Mountain College, a four-year liberal arts program at the community college system.

Mr. Millard's Master's Thesis investigated energy poverty in Lake County and established the current environmental justice focus of the Cloud City Conservation Center. Additionally, Mr. Millard has made numerous connections to the community

through his energy efficiency projects, through community outreach, and through engagement with the community around energy efficiency issues. He currently sits on the Planning and Zoning committee and is an active volunteer in community organizations.

VII. Past Performance in Reporting on Outputs and Outcomes

The Cloud City Conservation Center is currently working under a cooperative agreement through the Environmental Justice Program. The project is entitled the Energy Justice Initiative and is funded for \$29,984. The project is approaching six-month reporting requirements and is on track to meet its goals. The cooperative agreement number is: EPA-OECA-OEJ-13-01

The project has carefully tracked home energy audits and improvements made to the homes of participants in the program. Through energy software modeling the average energy savings of participants in the program have been tracked. Additionally, follow-up surveys conducted by native speaking interns have identified actions taken by program participants such as enrolling in weatherization programs or taking behavioral steps to reduce their energy usage and improve indoor air quality. The program goals are to audit 15 homes in six months and 30 total in one year; as of this application (less than six months in to the project) we have conducted 18 home energy audits with associated improvements to the efficiency of the homes.

USDA Solid Waste Management Grant deliverables have been completed on-time. These include planning and execution of a one-day Household Hazardous Waste Round Up; development and delivery of environmental education lessons for 900 K-8th grade students and facilitation of a Recycle Task Force and Waste Diversion Plan for Lake County.

VIII. Expenditure of Awarded Grant Funds

Cloud City Conservation Center has grant management systems in place to ensure effective management of grant funds. Each Grant project is entered into Quick Books as a separate project, with a cash-flow by month per project. Financial management is reviewed at least quarterly by the Executive Director and the C4 Board. Financial documents are approved quarterly by the C4 board. Performance reviews, including grant deliverables and timelines are reviewed at least quarterly by the Executive Director and the board. A grant tracking database and calendar helps to ensure reports and deliverables are completed on time.

IX. Quality Assurance Project Plan (QAPP) Information

Our program will utilize existing environmental health data compiled by the Lake County Public Health Agency, Build-A-Generation, LiveWell Leadville, and the Youth Master Plan.

X. Additional Supporting Materials.

A. Milestones/Performance Objectives Table

Timeline	Resources/Inputs	Activities	Outputs	Outcomes
6 months	Staff time of respective organizations, organizational infrastructure, Women's Empowerment Leadership Stipend?	Project planning sessions incorporating residents and stakeholders.	Project tools are designed for evaluation and problem assessment.	Project tools such as photo-voice, mapping, GIS mapping, and project-specific community engagement processes are developed.
12 months	Staff time, environmental monitoring equipment, technical assistance, environmental consultants, GIS mapping specialists, photo voice project, Women's Empowerment Group Leadership Stipend.	<ul style="list-style-type: none"> -Work to measure and map environmental hazards in participant homes such as radon, lead, carbon monoxide, and drinking water. -Conduct home health assessments related to energy efficiency, indoor air quality, and exposure to toxins. -Conduct an environmental assessment of healthy amenities in outlying communities. -Convene focus groups to prioritize actions steps. 	<ul style="list-style-type: none"> Environmental hazards to affected communities are documented and evaluated. Housing stock is evaluated for efficiency and environmental risk. Environmental amenities are mapped and quantified through GIS software -Community leaders are developed to advocate for remedies for environmental hazards/lack of amenities. 	<ul style="list-style-type: none"> Environmental hazards are clearly understood by coalition and community members. -The causes of high energy use patterns are well understood and can be used to influence policy towards better remedies than currently exist. -Distribution patterns of environmental amenities are made clear to policy makers and community leaders in order to prioritize investments. -Community leaders are empowered to advocate for remedies to

		-Train and develop capacity for environmental issue engagement among staff of organizations and residents.		environmental health issues through policy recommendations, leveraging of resources, and community activism.
18 Months	Staff time, facilitated meetings, research and analysis, community stakeholder engagement processes.	Community stakeholders (individuals, coalition members, policy makers) are convened to develop solutions to environmental hazards and to advocate for investment in environmental amenities.	Environmental hazards and desired amenities are clearly prioritized for policy makers and for community investment grantors.	A concrete plan to address environmental hazards is created and appropriate resources are leveraged to address and remedy identified issues.
2 years	Staff time,	Program's impact is evaluated and unmet needs and issues are resolved through additional engagement.	Successful interventions are recorded and re-implemented for greater impact.	A clear blue-print for healthier homes and neighborhoods emerges with replicable patterns that can followed by additional community organizations, community grantors, and other partners and stakeholders.